



SAFETY DATA SHEET

Kelpak

SECTION 1 - IDENTIFICATION OF PRODUCT AND OF THE COMPANY

- 1.1. Product identifier:** *Ecklonia maxima* seaweed extract
Trade name: Kelpak
- 1.2. General use:** Plant Growth Regulator
Product description: Green aqueous liquid with slight seaweed odor
- 1.3. Contact details**
1.3.1. Manufacturer: Kelp Products (Pty) Ltd.
P O Box 325
Simon's Town
South Africa
(+27 21) 786 2090

SECTION 2 - HAZARDS IDENTIFICATION

- 2.1. Classification of the substance or mixture:** This material is considered non-hazardous.
- 2.2. Emergency overview:** Green aqueous liquid with slight seaweed odor
- 2.3. Most important symptoms and effects**
2.3.1. Possible exposure: Ingestion, inhalation and skin contact
2.3.2. Eye contact: Non-irritant
2.3.3. Skin contact: Non-irritant
2.3.4. Ingestion: Non-toxic
2.3.5. Inhalation: Non-toxic
- 2.4. Pictograms:** None
- 2.5. Signal word:** None

**GHS Precautionary Statements:**

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| P102 | Keep out of reach of children. |
| P103 | Read label before use. |
| P264 | Wash hands thoroughly after handling. |
| P305+P351 | IF IN EYES: Rinse cautiously with water for several minutes. |
| P303+P353 | Rinse skin with water/shower. |
| P301+P330 | IF SWALLOWED: Rinse mouth. |
| P304+P340 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. |
| P234+P235+P410+P420 | Keep only in original container. Keep cool. Protect from sunlight. Store away from food and feed products. Store away from other materials. |

SECTION 3 - COMPOSITION OR INFORMATION ON INGREDIENTS

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| 3.1. Raw material: | Fresh material from <i>Ecklonia maxima</i> | 34.26% |
| 3.2. Additives: | Preservatives and inert materials | 65.74% |

SECTION 4 - FIRST AID MEASURES**4.1. Description of first aid measures:**

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| 4.1.1. Eye contact: | Immediately rinse with water for 5 minutes. |
| 4.1.2. Skin contact: | Wash skin with soap and water. |
| 4.1.3. Ingestion: | Rinse mouth with water and drink a large quantity of water. |
| 4.1.4. Inhalation: | Remove product or move person to fresh air. |

4.2. Indication of any immediate medical attention and special treatment needed: None

SECTION 5 – FIREFIGHTING MEASURES

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| 5.1. Flash point: | None to boiling. |
| 5.2. Flammable limits: | Not applicable. |
| 5.3. Extinguishing media: | Use water spray, dry chemical or carbon dioxide. |
| 5.4. Firefighting procedure: | Remove container from fire area. |
| 5.5. Combustion products: | Vapors are non-toxic and non-irritant. |

**SECTION 6 - ACCIDENTAL RELEASE MEASUREMENTS**

- 6.1. Spillage/leaking:** Stop leak, contain spill and absorb with inert dry material (soil or natural absorbents). Sweep up waste and place in container for disposal. Wash down area with water. Uncontaminated spilled material may be reused.
- 6.2. Personal protective equipment:** Refer to section 8.

SECTION 7 - HANDLING AND STORAGE

- 7.1. Safe handling:** Avoid eye contact and prolonged skin contact. Respiratory protection is normally not required. Wash hands thoroughly after handling the product.
- 7.2. Safe storage conditions:** Store in the original labelled container in a cool place away from direct sunlight and heat. Keep separate from food and feed products and out of reach of children and animals.

SECTION 8 - EXPOSURE CONTROL OR PERSONAL PROTECTION

- 8.1. Personal protective equipment:** Chemical goggles or shielded safety glasses and rubber or neoprene gloves are not required, but their use is recommended.
- 8.2. Respiratory:** Protection not required, but a respirator can be used.

**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

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| 9.1. Appearance: | Green aqueous liquid |
| 9.2. Odour: | Faint seaweed |
| 9.3. pH: | 4.0 – 4.6 |
| 9.4. Boiling point: | 101°C |
| 9.5. Melting or freezing point: | -0.5°C |
| 9.6. Specific gravity: | 1.01 – 1.03 |
| 9.7. Density: | 1.01 g/cm ³ – 1.03 g/cm ³ |
| 9.8. Vapor pressure: | Not available |
| 9.9. Vapor density: | Not available |
| 9.10. Percent volatile: | 95% |
| 9.11. Evaporation rate: | Not available |
| 9.12. Auto ignition temperature: | Not applicable |
| 9.13. Solubility in water: | Soluble, aqueous solution |

SECTION 10 - STABILITY AND REACTIVITY

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| 10.1. Stability: | Stability guaranteed for a maximum of 2 years under recommended storage conditions in an original sealed container. |
| 10.2. Reactivity: | Stable |
| 10.3. Hazardous reactions possibility: | Will not occur |
| 10.4. Conditions to avoid: | Storage in direct sunlight, below 0°C or above 40°C |
| 10.5. Incompatibility: | Strong bases and oxidizing agents |
| 10.6. Hazardous decomposition: | No products known |
| 10.7. Hazardous polymerization: | None known |

SECTION 11 - TOXICOLOGICAL INFORMATION

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| 11.1. Acute oral LD₅₀: | >5600 mg/kg in rats – non-toxic |
| 11.2. Acute dermal LD₅₀: | >8600 mg/kg in rats – non-toxic |
| 11.3. Inhalation LC₅₀: | >5.92 mg/L air in rats – non-toxic |
| 11.4. Skin irritation: | Non-irritant in rabbits |
| 11.5. Eye irritation: | Non-irritant in rabbits |
| 11.6. Chronic effects: | None known |

**SECTION 12 - ECOLOGICAL INFORMATION**

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| 12.1. Ecotoxicology: | Non-toxic |
| 12.1.1. Bees - LD ₅₀ (oral; 96 hr): | >100 µg/bee |
| 12.1.2. Algae - IC ₅₀ (72 hr): | >100 mg/L |
| 12.1.3. Daphnia - EC ₅₀ (48 hr): | >1000 mg/L |
| 12.1.4. Trout/Carp - LC ₅₀ (96 hr): | >1000 mg/L |
| 12.1.5. Earthworm – LC ₅₀ (14 days): | >1000 mg/kg dry soil |
| 12.1.6. Japanese Quail - LD ₅₀ (14 days): | >2000 mg/kg |

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| 12.2. Biodegradation: | Oxidation and micro-organisms |
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SECTION 13 - DISPOSAL CONSIDERATIONS

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| 13.1. Disposal: | Product and container to be disposed of in accordance with local regulations. |
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SECTION 14 - TRANSPORTATION INFORMATION

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| 14.1. Transportation: | Not regulated |
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SECTION 15 - REGULATORY INFORMATION

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| 15.1. Classification: | This product is considered non-toxic and non-irritant |
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**SECTION 16 – OTHER INFORMATION****Current version:**

September 20, 2019

Supersedes:

July 22, 2010

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